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Derwent Record

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- Derwent Title: **Three phase circuits single-phase shorting detection device - has transformer to close switch and control relay and uses transformer to detect screen wire shorting**
- Original Title: ☒ [SU1046717A1](#): DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL
- Assignee: **FRUNZE POLY** Standard company
Other publications from [FRUNZE POLY \(FRPO\)](#)...
- Inventor: **ANTONOV Y U P; KADENKOV N P; TRACHENKO D I;**
- Accession/Update: **1984-157657 / 198425**
- IPC Code: **G01R 31/02 ;**
- Derwent Classes: **S01; X12;**
- Manual Codes: **S01-G04**(Testing for short circuits, discontinuity and leakage [general]) , **X12-H09**(Power supply/distribution aspects - other)

Derwent Abstract: [\(SU1046717A\)](#) Instrument has improved reliability, achieved by use of a second rectifier, second control winding of the control contact and a current transformer, the first output of the primary winding of which is connected to the earth line of the instrument and the second output is connected to the terminal with the screening control cable. During absence of shorting or current leakage, wire (6) on the screen of cut-off (1) is in a closed state and the voltage from three-phase circuit (3) passes to load (17). During non-symmetry of the current in the primary winding of transformer (4), an a.c. voltage is induced in its secondary winding, which is rectified and passed to control winding (8) of contact (9). The contact is switched and shorts the winding of control relay (11). When wire (6) is closed, a voltage is induced in the secondary winding of transformer (13), which is rectified and passed to winding (15) of contact (9), switching it and relay (11) and ensuring selective protective disconnection of current-conducting wire (6). Bul.37/7.10.83

Dwg.1/1

Family: PDF Patent Pub. Date Derwent Update Pages Language IPC Code
☒ SU1046717A * 1983-10-07 198425 3 English G01R 31/02
Local apps.: SU1981003364875 Filed:1981-12-18 (81SU-3364875)
.....

Priority Number:	Application Number	Filed	Original Title
	SU1981003364875	1981-12-18	DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Title Terms: THREE=PHASE CIRCUIT SINGLE PHASE SHORT DETECT DEVICE TRANSFORMER CLOSE SWITCH CONTROL RELAY TRANSFORMER DETECT SCREEN WIRE SHORT

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SU1046717A1: DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Title:

Derwent Title:

Three phase circuits single-phase shorting detection device - has transformer to close switch and control relay and uses transformer to detect screen wire shorting [\[Derwent Record\]](#)

Country:

SU Union of Soviet Socialist Republics (USSR)

Kind:

A1 Inventor's Certificate

Inventor:

ANTONOV YURIJ P,SU;
TKACHENKO DMITRIJ I,SU;
KADENKOV NIKOLAJ P,SU;
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Assignee:

FRUNZENSKIJ POLT INSTITUT Union of Soviet Socialist Republics (USSR)
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Published / Filed:

1983-10-07 / 1981-12-18

Application Number:

SU1981003364875

IPC Code:

G01R 31/02;

ECLA Code:

None

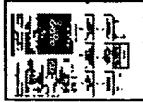
Priority Number:

1981-12- SU1981003364875

Family:

PDF	Publication	Pub. Date	Filed	Title
<input checked="" type="checkbox"/>	SU1046717A1	1983-10-07	1981-12-18	DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-

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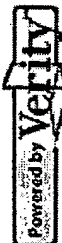


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Other Abstract

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DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Patent number: SU1046717
Publication date: 1983-10-07
Inventor: ANTONOV YURIJ P; TKACHENKO DMITRIJ I;
KADENKOV NIKOLAJ P; SVINOBOEV NIKOLAJ I
Applicant: FRUNSENSKIJ POLITECHN INST [SU]
Classification:
- **international:** G01R31/02
- **european:**
Application number: SU19813364875 19811218
Priority number(s): SU19813364875 19811218

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